

## **Assignment Title:** Introduction to macOS and iOS

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## Questions

### What is macOS?

macOS is Apple's desktop operating system designed for Mac computers.

### Mention all versions of macOS to date.

Mac OS X 10.0 Cheetah, Mac OS X 10.1 Puma, Mac OS X 10.2 Jaguar, Mac OS X 10.3 Panther, Mac OS X 10.4 Tiger, Mac OS X 10.5 Leopard, Mac OS X 10.6 Snow Leopard, Mac OS X 10.7 Lion, OS X 10.8 Mountain Lion, OS X 10.9 Mavericks, OS X 10.10 Yosemite, OS X 10.11 El Capitan, macOS 10.12 Sierra, macOS 10.13 High Sierra, macOS 10.14 Mojave, macOS 10.15 Catalina, macOS 11 Big Sur, macOS 12 Monterey, macOS 13 Ventura, macOS 14 Sonoma, macOS 15 Sequoia

### What is the latest public version of iOS?

The latest public version of iOS is iOS 18.

### What is iOS?

iOS is Apple's mobile operating system used on the iPhone. It controls hardware interaction, security, application execution, and user interface on mobile devices.

### What is Spotlight?

Spotlight is a built-in search engine in macOS that allows users to search for files, applications, emails, settings, and perform quick calculations.

### What is Finder?

Finder is macOS's file manager that allows users to navigate, organize, copy, delete, and manage files and folders.

How do you shut down the computer using the Terminal application?

sudo shutdown -h now

How can you play a phrase audibly in Terminal?

say "Hi, I am Jorge"

What is AirDrop for?

AirDrop is used to share files wirelessly between Apple devices using Wi-Fi and Bluetooth.

What is Keychain Access?

Keychain Access is a macOS application that securely stores passwords, certificates, encryption keys, and login credentials.

What are Apple's development languages?

Swift and Objective-C

It is no longer possible to program Mac and iOS applications in Objective-C.

False

What are the 3 main features of Swift?

Safety (type safety and error handling, high performance, and clean and modern syntax)

How do you add new workspaces in macOS?

Open Mission Control and click the "+" button to add a new desktop.

Why develop mobile applications?

High market demand, business scalability, user accessibility, monetization opportunities

Mention 4 elements or tools that come pre-installed on smartphones.

Camera, messaging app, web browser, maps

What do I need to create and publish an app for iOS?

A Mac computer, Xcode, Apple Developer Program membership, App Store Connect

Objective-C is more recent than Swift.

False

The Swift language generally requires more code than Objective-C.

False

How do you create a playground? Include a screenshot.

Open Xcode

Go to File → New → Playground

Select a template

Save the file

(I got no mac so there's no screenshot lol)

What is a package manager?

A package manager is a tool that automates software installation, updates, and dependency management.

What is Homebrew, and what is it used for?

Homebrew is a macOS package manager used to install command-line tools and software not included by default.

Besides the App Store, how can applications or libraries be downloaded for macOS?

Homebrew

GitHub

Official developer websites

What is the extension for executable files in macOS?

Executable files usually have no extension, while applications use the .app format.

How do you open Spotlight in macOS?

Command (⌘) + Spacebar

What is an IDE?

An IDE is an Integrated Development Environment that combines code editing, debugging, and testing tools.

What is the official IDE for programming applications for iOS and macOS?

Xcode

What is the command to delete a file in macOS?

rm filename

What are wearables or wearable technology?

Wearables are electronic devices worn on the body that collect data or provide smart features, such as smartwatches and fitness bands.